## **CLAIMS**

- 1. A torque generating electric motor comprising: an output shaft; force transfer means mounted on said shaft for conversion of drive forces into torque applied to the shaft; actuator means engageable with said force transfer means for imparting said drive forces thereto in response to energization thereof; positioning means mounting the actuator means in operative relation to the force transfer means for varying the drive force imparted thereto during said energization of the actuator means; and rotation resistance means in operative engagement with the output shaft for resisting rotation imparted thereto during deenerization of the actuator means.
- 2. The electric motor as defined in claim 1, including: electromagnetic means for magnetically negating resistance imposed on the output shaft by the rotation resistance means during said deenergization of the actuator means.
- 3. The electric motor as defined in claim 2, wherein said force transfer means comprises: discs of different diameters splined to the output shaft having indented peripheries engaged by the actuator means.
- 4. The electric motor as defined in claim 3, wherein said actuator means comprises: a plurality of electromagnetically energized devices having driving push rods projecting therefrom into force transferring engagement with the discs of the force transfer means.
- 5. The electric motor as defined in claim 4, wherein said rotation resistance means comprises: a rheological braking unit.

- 6. The electric motor as defined in claim 1, wherein said force transfer means comprises: discs of different diameters splined to the output shaft having indented peripheries engaged by the actuator means.
- 7. The electric motor as defined in claim 1, wherein said actuator means comprises: a plurality of electromagnetically energized devices having driving push rods projecting therefrom into force transferring engagement with the force transfer means.
- 8. The electric motor as defined in claim 2, wherein said rotation resistance means comprises: a rheological braking unit.